



(11)

EP 2 635 031 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
15.04.2015 Bulletin 2015/16

(51) Int Cl.:
H04N 9/04 (2006.01)
H04N 5/367 (2011.01)

(43) Date of publication A2:
04.09.2013 Bulletin 2013/36

(21) Application number: 13157208.3

(22) Date of filing: 28.02.2013

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR

Designated Extension States:
BA ME

(30) Priority: 01.03.2012 US 201213409957

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(54) Systems and methods for image processing

(57) The present disclosure relates generally to systems and methods for image data processing. In certain embodiments, a method 112 for transferring the image data may include processing the image data in an image sensor 82 by correcting one or more defective pixels in the image data based on a one-dimensional defective pixel correction algorithm 120; horizontally demosaicing the image data based on a one-dimensional horizontal

demosaic algorithm 122; or a combination thereof. After processing the image data, the method 112 may include horizontally downscaling the processed image data in the image sensor 116 and vertically downscaling the horizontally downsampled image data 118 in an image signal processor 32 to be displayed for viewing on a display device 28.

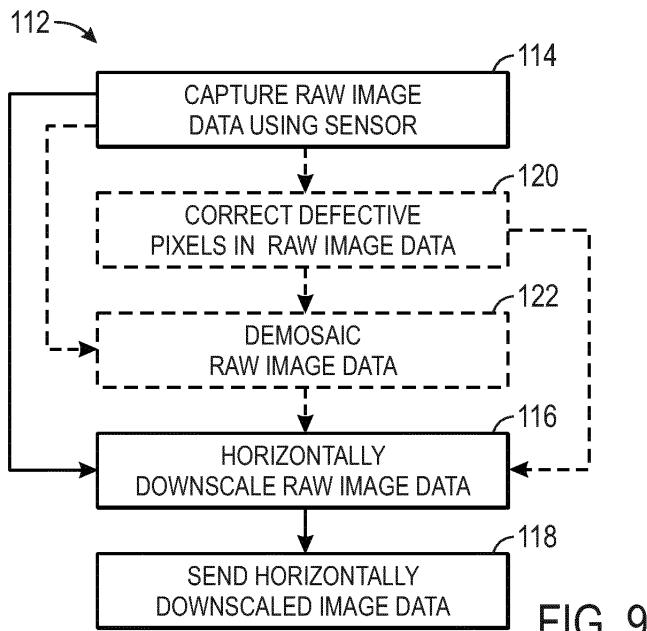


FIG. 9



EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	EP 1 526 719 A2 (NOKIA CORP [FI]) 27 April 2005 (2005-04-27) * page 5, line 54 * * page 5, line 32 * * paragraph [0020] * * paragraph [0021]; figure 4 *	1,6,7, 13-15	INV. H04N9/04 H04N5/367
Y	EP 1 271 933 A2 (AGILENT TECHNOLOGIES INC [US]) 2 January 2003 (2003-01-02) * column 10, line 6 - line 13 * * column 8, line 33 - line 34 *	2-5	
X	US 2011/090371 A1 (COTE GUY [US] ET AL) 21 April 2011 (2011-04-21) * paragraphs [0131], [0135], [0138], [0532], [0123], [0128], [0124] *	1,8-13	
			TECHNICAL FIELDS SEARCHED (IPC)
			H04N
The present search report has been drawn up for all claims			
3	Place of search The Hague	Date of completion of the search 9 March 2015	Examiner Bequet, Thierry
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

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Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

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No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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see sheet B

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All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

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As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

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Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

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None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

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The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



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**LACK OF UNITY OF INVENTION
SHEET B**

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

10 1. claims: 1-5, 13-15

Apparatus/method for determining/correcting defect pixels.

15 2. claims: 6-12

Method for demosaicing a colour signal

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-03-2015

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EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82